

Remarks/Arguments:

Claim Status

Claims 1-35 are pending and stand rejected.

By this Amendment, claims 1, 3-26 and 29-35 are amended.

No new matter is added by the specification amendments and claim amendments, and accordingly, entry and approval of same is respectfully requested. Support for the claim amendments can be found throughout the original specification, and, more particularly, in the original specification, at page 34, line 7 to page 35, line 10.

Specification Amendments

The specification has been amended to improve form as suggested by the Examiner in item 11 of the Action.

Reconsideration is respectfully requested.

Rejection of Claims 1-35 Under 35 U.S.C. § 112, second paragraph

In the Action at items 1-11, claims 1-35 are rejected under 35 U.S.C. §112, second paragraph, as being indefinite.

Claims 1, 3-26 and 29-35 have been amended to improve form and to overcome this rejection of claims 1-35.

Applicants submit that all claims are in full compliance with Section 112.

Reconsideration is respectfully requested.

Rejection of Claims 1, 3 and 20 Under 35 U.S.C. § 103(a)

In the Action at item 13, claims 1, 3 and 20 are rejected under 35 U.S.C. §103(a) as being unpatentable over Lyer et al. (U.S. Patent Publication No. 20040203749) (hereafter referred to as Lyer).

Reconsideration is respectfully requested.

Claim 1

Claim 1 is directed to a method of managing mobility of a mobile terminal on at least one domain network including a plurality of subnets, and recites:

"registering a main home address by the mobile terminal provided from a main home agent apparatus to a server for managing an address of the mobile terminal to have a connection to the at least one domain network; and

registering a sub-home address to the main home agent apparatus, as a care of address, for use on another domain network different in service form, when the mobile terminal moves to the other domain network, wherein the sub-home address is registered as the care of address for use on the other domain network for a specified time period."

That is, a main home address is registered to manage an address of the mobile terminal to have a connection to the at least one domain network and a sub-home address to the main home agent apparatus is registered as the care of address for use on the other domain network different in service form.

Lyer Reference

Lyer discloses a wireless communications network 10 that includes a mobile device 20b. The mobile device 20b maintains connectivity with a home network 12 (i.e., within the wireless network) when the mobile device 20b roams across the home network 12. The mobile device 20b in the wireless network 10 may register with its home agent (22a) in the home network 12 by generating registration requests directed to the Mobile IP Proxy. The mobile proxy device 16 processes the requests intended for the home agent 22a to enable the mobile device 20b to

maintain its transport connectivity while it is roaming outside its home network 12. More particularly, in Lyer, when a registration request 43a is sent from the mobile device to the Mobile IP Proxy device 16, the actual home agent field in the HA parameter extension field 61 is set to zero to indicate to the Mobile IP Proxy that the mobile device has not been assigned a home agent. The Mobile IP Proxy assigns a home agent to the mobile device, creates a new registration request, and forwards it to the assigned home agent. This allows the Mobile IP Proxy to select a home agent for the mobile device.

Contrary to the present invention recited in claim 1, in the Lyer process, a sub-home address to the main home agent apparatus is not registered as the care of address for use on another domain network different in service form. Thus, in Lyer, for example, there is no mechanism for a home agent to transfer information (e.g., a signal frame) which is received by a home agent while the mobile terminal is connecting to a different domain network that is different in service form. The foregoing is because Lyer does not contemplate a mobile terminal being simultaneously managed by a plurality of home agents (e.g. in Lyer only one home agent address or sub-home address is registerable at one time).

Moreover, Lyer is silent regarding anything related to the registration-timing feature of Applicants' claimed invention (i.e., the sub-home address being registered as the care of address for a specified time period).

Accordingly, Lyer fails to disclose or suggest each and every limitation of claim 1. Therefore, Applicants request that the rejection of claim 1 be withdrawn.

Claim 20

Claim 20 includes features similar to those of claim 1 and is submitted to be patentable over the cited art of Lyer for similar reasons to those of claim 1.

Dependent Claim 3

Claim 3 include all of the limitations of claim 1 from which it depends, and, accordingly, Applicants request that the rejection of claim 3 also be withdrawn.

Rejection of Claims 2, 4-13 and 21-28 Under 35 U.S.C. § 103(a)

In the Action at item 17, claims 2, 4-13 and 21-28 are rejected under 35 U.S.C. §103(a) as being unpatentable over Lyer in view of Wenzel et al. (U.S. Patent Publication No. 20030073439) (hereafter referred to as Wenzel).

Claims 2, 4-13 and 21-28 include all of the limitations of claim 1 or claim 20 from which they ultimately depend, and, accordingly, Applicants submit these claims are patentable over Lyer for at least the same reasons as those set forth above regarding claim 1 or claim 20.

Reconsideration is respectfully requested.

Wenzel Reference

It is submitted that the addition of Wenzel does not overcome the deficiencies of Lyer because Wenzel does not disclose or suggest the above-mentioned features of "registering a main home address to manage an address of the mobile terminal to have a connection to the at least one domain network and registering a sub-home address to the main home agent apparatus as the care of address for use on another domain network different in service form ..." (as required by claim 1 and similar features in claim 20). This is because, in Wenzel a primary address and one or more secondary home agents are assigned and if an initial registration to the primary home agent fails then registration to one or more secondary home agents will be attempted. Thus, nothing in Wenzel discloses or suggests registering a main home address to manage an address of the mobile terminal to have a connection to one domain network device and a sub-home address to the main home agent apparatus as the care of address for use on another domain network. This is because, Wenzel is silent regarding any difference in the registration or connection process based on the connection of the mobile terminal to a particular domain network.

Moreover, Wenzel is silent regarding the registration-timing feature.

Accordingly, Lyer and Wenzel, taken singularly or in any proper combination, fail to disclose or suggest each and every limitation of claims 2, 4-13 and 21-28, which include all of

the limitations of claim 1 or claim 20. Therefore, Applicants request that the rejection of claims 2, 4-13 and 21-28 be withdrawn.

Rejection of Claims 14-19 and 29-34 Under 35 U.S.C. § 103(a)

In the Action at item 26, claims 14-19 and 29-34 are rejected under 35 U.S.C. §103(a) as being unpatentable over Lyer in view of Wenzel in further view of Heller (U.S. Patent Publication No. 20020147837)

Reconsideration is respectfully requested.

Claims 14-19 and 29-34 include all of the limitations of claim 1 or claim 20 from which they ultimately depend, and, accordingly, Applicants submit these claims are patentable over Lyer in view of Wenzel for at least the same reasons as those set forth above regarding claim 1 or claim 20.

Heller Reference

It is submitted that the addition of Heller does not overcome the deficiencies of Lyer in view of Wenzel because Heller does not disclose or suggest the above-mentioned features of "registering a main home address to manage an address of the mobile terminal to have a connection to the at least one domain network and registering a sub-home address to the main home agent apparatus, as the care of address, for use on another domain network different in service form ..." (as required by claim 1 and similar features in claim 20). This is because, Heller is silent regarding domain networks being different in service form, and furthermore, regarding registering a sub-home address to the main home agent apparatus for use on domain networks that are different in service form. Moreover, Heller is silent regarding the registration-timing feature recited in claim 1.

Accordingly, Lyer, Wenzel and Heller, taken singularly or in any proper combination, fail to disclose or suggest each and every limitation of claims 14-19 and 29-34, which include all of the limitations of claim 1 or claim 20. Therefore, Applicants request that the rejection of claims 14-19 and 29-34 be withdrawn.

Rejection of Claim 35 Under 35 U.S.C. § 103(a)

In the Action at item 29, claim 35 is rejected under 35 U.S.C. §103(a) as being unpatentable over Lyer in view of Wenzel in further view of Heller and in further view of Flykt (WO 01/41395).

Reconsideration is respectfully requested.

Claim 35 includes all of the limitations of claim 20 from which it ultimately depends, and, accordingly, Applicants submit this claim is patentable over Lyer in view of Wenzel and in further view of Heller for at least the same reasons as those set forth above regarding claim 20.

Flykt Reference

It is submitted that the addition of Flykt does not overcome the deficiencies of Lyer in view of Wenzel in further view of Heller because Flykt does not disclose or suggest the above-mentioned features of "a mobile IP processing section for notifying, when the mobile terminal has moved to a domain network different in service form, a sub-home agent apparatus for requesting location management on the other domain network different in service form of a home address for use on the other domain network different in service form together with a care of address for use on a subnet of the other domain network different in service form, based on a mobile IP protocol, wherein the sub-home address is registered as the care of address for use on the other domain network for a specified time period." (as required by claim 20). This is because, Flykt is at least silent regarding anything related to the registration-timing feature recited in claim 20 (i.e., the sub-home address being registered as the care of address for use on the other domain network for a specified time period).

Accordingly, Lyer, Wenzel, Heller and Flykt, taken singularly or in any proper combination, fail to disclose or suggest each and every limitation of claim 35, which include all of the limitations of claim 20. Therefore, Applicants request that the rejection of claim 35 be withdrawn.

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MAT-8574US

Conclusion

In view of the specification amendments, claim amendments and remarks set forth above, Applicants respectfully submit that claims 1-35 are in condition for allowance and early notification to that effect is earnestly solicited.

Respectfully submitted,

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